

L13 ANSWER 1 OF 1 USPATFULL on STN
AN 2002:243532 USPATFULL
TI Method for **isomerizing halogenated aromatics**
IN Kato, Hajime, Aichi, JAPAN
Iwayama, Kazuyoshi, Aichi, JAPAN
Kato, Masashi, Aichi, JAPAN
Yamakawa, Shinobu, Aichi, JAPAN
Okino, Hirohito, Aichi, JAPAN
PA Toray Industries, Inc. (non-U.S. corporation)
PI US 2002132723 A1 20020919
AI US 2001-10561 A1 20011108 (10)
RLI Division of Ser. No. US 1998-113587, filed on 10 Jul 1998, ABANDONED
PRAI JP 1997-185165 19970710
JP 1997-335229 19971205
DT Utility
FS APPLICATION
LREP SCHNADER HARRISON SEGAL & LEWIS, LLP, 1600 MARKET STREET, SUITE 3600,
PHILADELPHIA, PA, 19103
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 1088

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a **catalyst** composition with a high **halogenated aromatics isomerization** activity, a **halogenated aromatic isomerization** method using said **catalyst** composition, and a **halogenated aromatics isomerization** method capable of prolonging the life or regeneration period of the **catalyst**.

In the present invention, a **catalyst** composition characterized in that the maximum **diameter** of **secondary particles** of the **zeolite** in the formed **catalyst** is 5 microns or less is used to improve the **halogenated aromatics isomerization** activity. Furthermore, if **dissolved oxygen** is decreased, the life or regeneration period of the **catalyst** can be prolonged.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 1 OF 5 USPATFULL on STN
 AN 2003:185578 USPATFULL
 TI Preparation of high silica **zeolites** bound by **zeolite**
 and use thereof
 IN van den Berge, Jannetje Maatje, Oostvoorne, NETHERLANDS
 Mohr, Gary David, League City, TX, UNITED STATES
 PI US 2003127360 A1 20030710
 US 6645370 B2 20031111
 AI US 2002-315353 A1 20021210 (10)
 RLI Division of Ser. No. US 2001-992783, filed on 14 Nov 2001, GRANTED, Pat.
 No. US 6517807 Continuation of Ser. No. US 1999-396842, filed on 15 Sep
 1999, ABANDONED
 PRAI US 1998-101397P 19980922 (60)
 DT Utility
 FS APPLICATION
 LREP ExxonMobil Chemical Company, P.O. Box 2149, Baytown, TX, 77522
 CLMN Number of Claims: 56
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 1118
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB This invention relates to a process for producing **zeolite**
 -bound high silica **zeolites** and the use of the **zeolite**
 -bound high silica **zeolite** produced by the process for
 hydrocarbon conversion. The process is carried out by forming an
 extrudable paste comprising a mixture of high silica **zeolite**
 in the hydrogen form, water, silica, and optionally an extrusion aid,
 extruding the extrudable paste to form silica-bound high silica
zeolite extrudates, and then converting the silica of the binder
 to a **zeolite** binder. The **zeolite**-bound high silica
zeolite produced by the process comprises high silica
zeolite crystals that are bound together by **zeolite**
 binder crystals. The **zeolite**-bound high silica **zeolite**
 finds particular application in hydrocarbon conversion processes, e.g.,
 catalytic cracking, alkylation, disproportionation of toluene,
isomerization, and transalkylation reactions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 2 OF 5 USPATFULL on STN
 AN 2002:214169 USPATFULL
 TI Preparation of high silica **zeolites** bound by **zeolite**
 and use thereof
 IN van den Berge, Jannetje Maatje, Oostvoorne, NETHERLANDS
 Mohr, Gary David, League City, TX, UNITED STATES
 PI US 2002115555 A1 20020822
 US 6517807 B2 20030211
 AI US 2001-992783 A1 20011114 (9)
 RLI Continuation of Ser. No. US 1999-396842, filed on 15 Sep 1999, ABANDONED
 PRAI US 1998-101397P 19980922 (60)
 DT Utility
 FS APPLICATION
 LREP ExxonMobil Chemical Company, P.O. Box 2149, Baytown, TX, 77522
 CLMN Number of Claims: 56
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 1114
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB This invention relates to a process for producing **zeolite**
 -bound high silica **zeolites** and the use of the **zeolite**
 -bound high silica **zeolite** produced by the process for
 hydrocarbon conversion. The process is carried out by forming an
 extrudable paste comprising a mixture of high silica **zeolite**

in the hydrogen form, water, silica, and optionally an extrusion aid, extruding the extrudable paste to form silica-bound high silica **zeolite** extrudates, and then converting the silica of the binder to a **zeolite** binder. The **zeolite**-bound high silica **zeolite** produced by the process comprises high silica **zeolite** crystals that are bound together by **zeolite** binder crystals. The **zeolite**-bound high silica **zeolite** finds particular application in hydrocarbon conversion processes, e.g., catalytic cracking, alkylation, disproportionation of toluene, **isomerization**, and transalkylation reactions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 3 OF 5 USPATFULL on STN
AN 2002:7119 USPATFULL
TI Process for making a lube base stock from a lower molecular weight feedstock
IN O'Rear, Dennis J., Petaluma, CA, UNITED STATES
Harris, Thomas V., Benicia, CA, UNITED STATES
Miller, Stephen J., San Francisco, CA, UNITED STATES
Krug, Russell R., Novato, CA, UNITED STATES
Lok, Brent K., San Francisco, CA, UNITED STATES
PI US 2002003102 A1 20020110
US 6706936 B2 20040316
AI US 2001-758813 A1 20010111 (9)
RLI Continuation-in-part of Ser. No. US 1999-470053, filed on 22 Dec 1999, PENDING
DT Utility
FS APPLICATION
LREP BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 1479

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for making a lube base stock wherein a highly paraffinic feedstock is dehydrogenated to produce an olefinic feedstock. That olefinic feedstock is contacted with an oligomerization **catalyst** in an oligomerization zone to produce a product having a higher number average molecular weight than the olefinic feedstock. The product is separated into a light byproduct fraction and a heavy product fraction. The heavy product fraction comprises a lube base stock.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 4 OF 5 USPATFULL on STN
AN 2001:99595 USPATFULL
TI Process for making a lube base stock from a lower molecular weight feedstock using at least two oligomerization zones
IN Miller, Stephen J., San Francisco, CA, United States
O'Rear, Dennis J., Petaluma, CA, United States
Harris, Thomas V., Benicia, CA, United States
Krug, Russell R., Novato, CA, United States
PI US 2001004972 A1 20010628
US 6686511 B2 20040203
AI US 2001-758897 A1 20010111 (9)
RLI Continuation-in-part of Ser. No. US 1999-470053, filed on 22 Dec 1999, PENDING
DT Utility
FS APPLICATION
LREP Chevron Corporation, Law Department, Patent and Licensing Unit, P.O. Box 6006, San Ramon, CA, 94583-0806
CLMN Number of Claims: 20

ECL Exemplary Claim: 1
DRWN 1 Drawing Page(s)
LN.CNT 1237

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for making a lube base stock wherein an olefinic feedstock is separated into a light olefin fraction and a medium olefin fraction. The light olefin fraction is contacted with a first oligomerization **catalyst** in a first oligomerization zone to produce a first product. Both the medium olefin fraction and the first product are contacted with a second oligomerization **catalyst** in a second oligomerization zone to produce a second product. The second product is separated into a light byproduct fraction and a heavy product fraction that includes hydrocarbons in the lube base stock range.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 5 OF 5 USPATFULL on STN

AN 90:21277 USPATFULL

TI Decationized, dealuminated and stabilized L **zeolite** and use thereof

IN Raatz, Francis, Rueil Malmaison, France
Petit, Laurent, Les Mureaux, France
Marcilly, Christian, Houilles, France
Bournonville, Jean-Paul, Cergy Pontoise, France
Travers, Christine, Rueil Malmaison, France
Dufresne, Pierre, Rueil Malmaison, France

PA Institut Francais du Petrole, Rueil-Malmaison, France (non-U.S. corporation)

PI US 4909924 19900320

AI US 1987-84726 19870813 (7)

PRAI FR 1986-11796 19860813

FR 1986-14950 19861024

FR 1986-15377 19861103

FR 1987-2969 19870303

DT Utility

FS Granted

EXNAM Primary Examiner: Dees, Carl F.

LREP Millen, White & Zelano

CLMN Number of Claims: 10

ECL Exemplary Claim: 1,7

DRWN No Drawings

LN.CNT 1391

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention concerns a new decationized, dealuminated and stabilized **zeolite** of L type, characterized particularly by:

a total $\text{SiO}_2/\text{Al}_2\text{O}_3$ molar ratio of at least 8,

a potassium content lower than 2.9% by weight,

parameters a and c of the elementary mesh respectively lower than 1.836 nm and 0.754 nm,

a nitrogen adsorption capacity at 77 K, for a partial pressure P/Ps of 0.19, higher than 11% by weight,

a benzene adsorption capacity at 30° C., for a partial pressure P/Ps of 0.25, higher than 8.5% by weight, and

a lattice of mesopores whose radii, measured by nitrogen adsorption-desorption at 77 K according to the BJH method, range from 0.8 nm to 20 nm.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L21 ANSWER 1 OF 6 USPATFULL on STN
 AN 2003:184066 USPATFULL
 TI Detergent compositions containing modified alkylaryl sulfonate surfactants
 IN Kott, Kevin Lee, Loveland, OH, United States
 Scheibel, Jeffrey John, Loveland, OH, United States
 Severson, Roland George, Cincinnati, OH, United States
 Cripe, Thomas Anthony, Loveland, OH, United States
 Burckett-St. Laurent, James Charles Theophile Roger, Cincinnati, OH, United States
 PA The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)
 PI US 6589927 B1 20030708
 WO 2001005755 20010125
 AI US 2001-980800 20011203 (9)
 WO 2000-US19647 20000719
 PRAI US 1999-144519P 19990719 (60)
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Ogden, Necholas
 LREP Taffy, Frank, Zarby, Kim W., Miller, Steven W.
 CLMN Number of Claims: 33
 ECL Exemplary Claim: 1
 DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
 LN.CNT 3278
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention is in the field of processes for making alkylbenzenesulfonate surfactants. The processes herein include a combination of two essential steps, delinearization and alkylation. The delinearization step selected herein introduces particular types of limited branching into an aliphatic hydrocarbon having ten or more, but no more than about 16, carbon atoms. The hydrocarbon includes olefin having a hydrocarbon chain length suitable for detergent manufacture, e.g., C.sub.10-C.sub.14, or a corresponding paraffin. The second essential step is an alkylation step having an internal isomer selectivity of from 0 to no more than about 40 in which the hydrocarbon is used to monoalkylate benzene catalytically with an alkylation **catalyst**. Such alkylation **catalysts** preferably comprise an at least partially crystalline porous **zeolite**-containing solid, the **zeolite** having moderate acidity and intermediate pore size. Preferred alkylation **catalysts** include certain at least partially dealuminized acidic nonfluorinated mordenites. The processes herein further comprise sulfonating, neutralizing and incorporating the resulting modified alkylbenzenesulfonate surfactants into consumer products. The invention relates also to the products of the processes, including modified surfactants and consumer cleaning products containing them.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L21 ANSWER 2 OF 6 USPATFULL on STN
 AN 2002:243532 USPATFULL
 TI Method for **isomerizing** halogenated **aromatics**
 IN Kato, Hajime, Aichi, JAPAN
 Iwayama, Kazuyoshi, Aichi, JAPAN
 Kato, Masashi, Aichi, JAPAN
 Yamakawa, Shinobu, Aichi, JAPAN
 Okino, Hirohito, Aichi, JAPAN
 PA Toray Industries, Inc. (non-U.S. corporation)
 PI US 2002132723 A1 20020919
 AI US 2001-10561 A1 20011108 (10)
 RLI Division of Ser. No. US 1998-113587, filed on 10 Jul 1998, ABANDONED
 PRAI JP 1997-185165 19970710

JP 1997-335229 19971205
DT Utility
FS APPLICATION
LREP SCHNADER HARRISON SEGAL & LEWIS, LLP, 1600 MARKET STREET, SUITE 3600,
 PHILADELPHIA, PA, 19103
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 1088

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a **catalyst composition** with a high halogenated **aromatics isomerization** activity, a halogenated **aromatic isomerization** method using said **catalyst composition**, and a halogenated **aromatics isomerization** method capable of prolonging the life or regeneration period of the **catalyst**.

In the present invention, a **catalyst composition** characterized in that the maximum **diameter** of **secondary particles** of the **zeolite** in the formed **catalyst** is 5 **microns** or less is used to improve the halogenated **aromatics isomerization** activity. Furthermore, if dissolved **oxygen** is decreased, the life or regeneration period of the **catalyst** can be prolonged.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L21 ANSWER 3 OF 6 USPATFULL on STN
AN 1998:9106 USPATFULL
TI Synthetic crystalline aluminosilicate for the catalytic conversion of hydrocarbons in petrochemical processes
IN Tissler, Arno, Tegernheim, Germany, Federal Republic of
PA Ecolith--Zeolithe GmbH, Schwandorf, Germany, Federal Republic of (non-U.S. corporation)
PI US 5711869 19980127
AI US 1996-733018 19961016 (8)
RLI Division of Ser. No. US 1995-469872, filed on 6 Jun 1995 which is a continuation-in-part of Ser. No. US 1990-549185, filed on 6 Jul 1990, now abandoned And Ser. No. US 1995-422513, filed on 13 Apr 1995, now patented, Pat. No. US 5578195 which is a division of Ser. No. US 1991-725809, filed on 8 Jul 1991, now patented, Pat. No. US 5407654, issued on 18 Apr 1995

PRAI DE 1990-4022140 19900711
DT Utility
FS Granted
EXNAM Primary Examiner: Myers, Helene
LREP Darby & Darby
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1200

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The subject invention describes a synthetic crystalline aluminosilicate of the pentasil type and method for using the same as a **catalyst** or a **catalyst** component in petrochemical processes for the catalytic conversion of hydrocarbons and their derivatives into useful organic compounds and intermediates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L21 ANSWER 4 OF 6 USPATFULL on STN
AN 97:115204 USPATFULL
TI Synthetic crystalline aluminosilicate for the catalytic conversion of hydrocarbons in petrochemical processes

IN Tissler, Arno, Tegernheim, Germany, Federal Republic of
PA Ecolith-Zeolithe GmbH I.G., Schwandorf, Germany, Federal Republic of
(non-U.S. corporation)
PI US 5696043 19971209
AI US 1995-469872 19950606 (8)
RLI Division of Ser. No. US 1995-422513, filed on 13 Apr 1995, now patented,
Pat. No. US 5578195 And a continuation-in-part of Ser. No. US
1990-549185, filed on 6 Jul 1990, now abandoned And Ser. No. US
1991-725809, filed on 8 Jul 1991, now patented, Pat. No. US 5407654,
issued on 18 Apr 1995
PRAI DE 1990-4022140 19900711
DT Utility
FS Granted
EXNAM Primary Examiner: Myers, Helane
LREP Darby & Darby
CLMN Number of Claims: 16
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1188

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The subject invention describes a synthetic crystalline aluminosilicate
of the pentasil type and method for using the same as a **catalyst**
or a **catalyst** component in petrochemical processes for the
catalytic conversion of hydrocarbons and their derivatives into useful
organic compounds and intermediates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L21 ANSWER 5 OF 6 USPATFULL on STN
AN 92:5712 USPATFULL
TI Dual function **catalyst** and **isomerization** therewith
IN Brown, deceased, Lawrence M., late of Lawrenceville, NJ, United States
by Dorothy M. Brown, Administratrix
Huang, Tracy J., Lawrenceville, NJ, United States
PA Mobil Oil Corp., Fairfax, VA, United States (U.S. corporation)
PI US 5082984 19920121
AI US 1991-664243 19910304 (7)
RLI Division of Ser. No. US 1990-471462, filed on 29 Jan 1990, now patented,
Pat. No. US 5028573
DT Utility
FS Granted
EXNAM Primary Examiner: Garvin, Patrick P.; Assistant Examiner: Irzinski, E.
D.
LREP McKillop, Alexander J., Speciale, Charles J., Santini, Dennis P.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 1672

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A dual function composite **catalyst** for **isomerizing**
an **isomerization** feed containing an **aromatic** C.sub.8
mixture of ethyl benzene and xylene, comprises (a) a crystalline
aluminosilicate **zeolite** having a low acid activity as measured
by an alpha value of from 0.02 to 11, an average crystal size of not
more than 0.4 **microns** for at least 50% by weight of the
crystals, a silica to alumina ratio of at least about 12, a constraint
index of about 1 to 12, a xylene sorption capacity greater than 1 gram
per 100 grams of **zeolite**, and an ortho-xylene sorption time
for 30 percent of said capacity less than 10 minutes, said sorption
capacity and sorption time being measured at 120° C. and a xylene
pressure of 4.5±0.8 mm of mercury, and (b) a supported metal of Group
VIII of the Periodic Table having a high hydrogenation/dehydrogenation
activity to provide the **catalyst** with a dehydrogenation
activity of at least 10. The **catalyst** has an alpha value of

0.005 to 3.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L21 ANSWER 6 OF 6 USPATFULL on STN
AN 91:52512 USPATFULL
TI Dual function **catalyst** and **isomerization** therewith
IN Brown, deceased, Lawrence M., late of Lawrenceville, NJ, United States
by Dorothy M. Brown, administratrix
Huang, Tracy J., Lawrenceville, NJ, United States
PA Mobil Oil Corp., Fairfax, VA, United States (U.S. corporation)
PI US 5028573 19910702
AI US 1990-471462 19900129 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Davis, Curtis R.; Assistant Examiner: Phan, Nhat
LREP McKillop, Alexander J., Speciale, Charles J., Santini, Dennis P.
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 1706

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A dual function composite **catalyst** for **isomerizing**
an **isomerization** feed containing an **aromatic** C.sub.8
mixture of ethyl benzene and xylene, comprises (a) a crystalline
aluminosilicate **zeolite** having a low acid activity as measured
by an alpha value of from 0.02 to 11, an average crystal size of not
more than 0.4 **microns** for at least 50% by weight of the
crystals, a silica to alumina ratio of at least about 12, a constraint
index of about 1 to 12, a xylene sorption capacity greater than 1 gram
per 100 grams of **zeolite**, and an ortho-xylene sorption time
for 30 percent of said capacity less than 10 minutes, said sorption
capacity and sorption time being measured at 120° C. and a xylene
pressure of 4.5±0.8 mm of mercury, and (b) a supported metal of Group
VIII of the Periodic Table having a high hydrogenation/dehydrogenation
activity to provide the **catalyst** with a dehydrogenation
activity of at least 10. The **catalyst** has an alpha value of
0.005 to 3.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

(FILE 'HOME' ENTERED AT 17:24:00 ON 31 MAR 2004)

FILE 'CAPLUS, USPATFULL, CA, CAOLD' ENTERED AT 17:24:21 ON 31 MAR 2004

L1	219209 S ISOMERIZ?
L2	68141 S L1 AND CATALYST
L3	14253 S L2 AND ZEOLITE
L4	2951 S L3 AND DIAMETER
L5	886 S L4 AND MICRON?
L6	727 S L5 AND ?AROMATIC?
L7	537 S L6 AND OXYGEN
L8	172 S L7 AND SECONDARY
L9	148 S L8 AND PARTICLE?
L10	0 S L9 AND SECONDARY ZEOLITE PARTICLE?
L11	64 S L9 AND 5 MICRON
L12	21 S L11 AND HALOGEN?
L13	1 S L12 AND DISSOLVED OXYGEN
L14	9 S L12 AND PPM
L15	6 S L14 AND ISOMERIZING
L16	5 S L15 NOT L13
L17	5 DUP REM L16 (0 DUPLICATES REMOVED)
L18	42 S L9 AND ISOMERIZING
L19	9 S L18 AND CATALYST COMPOSITION
L20	6 S L19 NOT L17
L21	6 DUP REM L20 (0 DUPLICATES REMOVED)